

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1. (Currently Amended) A loop antenna unit having a plurality of loop antennas, said antenna unit comprising:

a first loop antenna to which an electric current is fed; and

a second loop antenna, surrounding the first loop antenna, to which the electric current is not fed;

a grounded metal member, the first loop antenna and the second loop antenna being connected to the metal member; and

a single grounding cable for connecting the first loop antenna and the second loop antenna to the metal member.

Claims 2 and 3 (Cancelled).

4. (Currently Amended) A loop antenna unit according to claim 1, further comprising:
a magnetic member disposed between the first loop antenna and the second loop antenna and the metal member.

5. (Previously Presented) A loop antenna unit according to claim 1, further comprising:

a first circuit unit including a resonance circuit and a matching circuit connected to the first loop antenna and

a second circuit unit including a resonance circuit, a matching circuit and a matched load connected to the second loop antenna.

6. (Previously Presented) A radio communication medium processor comprising:

the loop antenna unit according to claim 1; and

a reading and writing part connected to the first loop antenna of the loop antenna unit to carry out at least one of processes of reading and writing information stored in a radio communication medium through the first loop antenna, a signal current from the reading and writing part being fed only to the first loop antenna.

7. (Currently Amended) A radio communication medium processor according to claim 6, further comprising:

a third loop antenna to which an electric current is not fed, the third loop being arranged adjacently to the loop antenna unit ~~according to claim 1~~.

8. (Currently Amended) A loop antenna unit ~~including~~ comprising:

a loop antenna communicating with a radio communication medium and having a pair of opening end parts at both ends; and

a metal member arranged closely to the loop antenna, wherein;

the metal member is electrically connected to one of the opening end parts of the loop antenna with a space about $1/200$ to $1/4000$ times as long as the wavelength of a communication frequency, and

in the loop antenna unit, the loop antenna, a magnetic member, the metal member, a first isolating member disposed between the loop antenna and the magnetic member and a second isolating member disposed between the magnetic member and the metal member are laminated.

9. (Original) A loop antenna unit according to claim 8, wherein the loop antenna supplies an electric power and transmit data to the radio communication medium in accordance with an electromagnetic induction and obtains receive data from the radio communication medium in accordance with a load variation.

Claims 10-13 (Cancelled).

14. (Previously Presented) A loop antenna unit according to claim 8, wherein the area of the metal member is not smaller than about 1.1 times as large as the area of the opening part of the loop antenna.

15. (Currently Amended) A loop antenna unit according to claim 8 ~~11~~, wherein:
the magnetic member is disposed between the loop antenna and the metal member, and
the magnetic member has a flexibility.

16. (Previously Presented) A loop antenna unit according to claim 8, wherein one of the pair of the opening end parts is electrically connected to the metal member, an unbalanced type resonance circuit and a ground terminal of a matching circuit, and the other of the pair of the opening end parts is connected to the unbalanced type resonance circuit and a signal terminal of the matching circuit.

17. (Previously Presented) A loop antenna unit according to claim 8, wherein one of the pair of the opening end parts is connected to a ground terminal of a reading and writing part for reading, writing or reading and writing data of the radio communication medium, and the other of the pair of the opening end parts is connected to a signal terminal of the reading and writing part.

Claims 18 (Cancelled).

19. (Currently Amended) A loop antenna unit according to claim 8 ~~18~~, wherein the loop antenna is formed with a pattern conductor provided on an electronic board and the electronic board is laminated as the loop antenna.

20. (Currently Amended) A loop antenna unit according to claim 19, wherein a ~~the~~ resonance circuit and a ~~the~~ matching circuit are formed on the electronic board.

21. (Currently Amended) A loop antenna unit according to claim 8 ~~18~~, wherein the loop antenna unit is stored in an accommodating case.

22. (Previously Presented) A loop antenna unit according to claim 8, wherein the loop antenna unit is accommodated in a housing.

23. (Previously Presented) A loop antenna unit according to claim 8, wherein a plurality of the loop antenna units are arranged linearly, in radial directions or on arrays substantially on the same planes.

24. (Currently Amended) A loop antenna unit according to claim 23, wherein the plurality of the loop antenna units include electric current fed loop antenna units to which a the signal current is fed and non-electric current fed loop antenna units to which the signal current is not fed.

25. (Currently Amended) A radio communication medium processor comprising:
a ~~the~~ plurality of ~~the~~ loop antenna units according to claim 8 and a ~~the~~ reading and writing part for reading, writing or reading and writing ~~the~~ data on a ~~the~~ radio communication medium, wherein the plurality of the loop antenna units include ~~the~~ electric current fed loop antenna units to which a ~~the~~ signal current is fed and ~~the~~ non-electric current fed loop antenna units to which the signal current is not fed.

26. (Original) A radio communication medium processor according to claim 25, wherein the reading and writing part is connected only to the electric current fed loop antenna units among the plurality of loop antenna units.

27. (Previously Presented) A loop antenna unit according to claim 14, wherein the magnetic member has a flexibility.